

Toll Free: 1-888-865-6888 Tel: 510-226-8368 Fax: 510-226-8968 Email: sales@RackmountMart.com

User Manual 15" SunReadable LCD



ID-H15AN Front NEMA4 / IP 65 LCD panel



ID-H15D Stylish front aluminum cover LCD panel



ID-H15P Open frame LCD panel

Options : - AV / BNC

- DVI
- Touchscreen
- DC power
- TV tuner
- Audio input
- Remote controller

Contents

| Chapter 1 | Get 1.1 1.2 1.3 1.4 | ting St Importan BeforeIns Unpackir Optional | tarted tSafeguards stallation ng Accessories | | |
|-----------|--|--|--|---------------------------------|---|
| Chapter 2 | ID-ł | H15A | SunReadable f | ront aluminum LCD panel | |
| I | 2.1 | Package | Contents | | |
| | 2.2 | Structure | Diagram | 4 | |
| | 2.3 | Dimensio | on Diagram | 5 | |
| | 2.4 | Mounting | g Method | 6-7 | |
| Chapter 3 | ID-ł | H15AN | SunReadable fi | ront NEMA4 / IP 65 LCD panel | |
| | 3.1 | Package | Contents | | |
| | 3.2 | Structure | e Diagram | 9 | |
| | 3.3 | Dimensio | on Diagram | | |
| | 3.4 | Mounting | g Method | | |
| Chapter 4 | ID-F | H15D | SunReadable s | tylish front aluminum cover LCI | D |
| | 4.1 | Package | Contents | | |
| | 4.2 | Structure | Diagram | | |
| | 4.3 | Dimensio | on Diagram | | |
| | 4.4 | Mounting | g Method | | |
| Chapter 5 | ID-ł | | SunReadable o | pen frame LCD panel | |
| - | 5.1 | Package | Contents | 17 | |
| | 5.2 | Structure | Diagram | | |
| | 5.3 | Dimensio | on Diagram | | |
| | 5.4 | Mounting | g Method | | |

| Chapter 6 | Connection |
|------------|---|
| Chapter 7 | Operation7.1On-screen Display Operation |
| Chapter 8 | LCD Specification |
| Chapter 9 | AV, BNC, DVI Options9.1DVI-D Option |
| Chapter 10 | Touchscreen Options 10.1 Touchscreen Quick User Guidelines27-28 |
| Chapter 11 | DC Power Options |
| Chapter 12 | TV Tuner Options 12.1 TV Tuner Options |
| Chapter 13 | Audio Input Options |
| Chapter 14 | Remote Controller Options |
| Chapter 15 | Troubleshooting |
| Chapter 16 | Dimensions |
| Chapter 17 | Cleaning the LCD display35 |

1.1 Important Safeguards

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
 - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - □ Repair or attempted repair by anyone not authorized by us.
 - □ Any damage of the product due to shipment.
 - □ Removal or installation of the product.
 - □ Causes external to the product, such as electric power fluctuation or failure.
 - □ Use of supplies or parts not meeting our specifications.
 - □ Normal wear and tear.
 - □ Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

1.2 Before Installation

- It is very important to locate the LCD Display in a suitable environment.
- The surface for placing and fixing the LCD Display should be stable.
- Make sure the place has good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.
- Convenience for connecting the LCD Display to the related facilities should be well considers too.

1.3 Unpacking

The LCD Display comes with the standard parts shown on the package contents. Check and make sure they are included and in good condition. If anything is missing, or damage, contact the supplier immediately.

1.4 Optional Accessories

1. Power Cord

- 1.1 IEC power cord
- 1.2 NEMA 5-15 power cord (US)
- 1.3 BS 1363 power cord (UK)
- 1.4 CEE 7/4 power cord (German)
- 1.5 AS 3112 power cord (Australia)



2.1 ID-H15A series Package Contents



- (1) LCD display x 1 pc
- (2) 6' VGA cable (male to male) x 1 pc
- 3 User manual x 1 pc
- 4 Power cord x 1 pc
- (5) Auto switch power adapter x 1 pc
- 6 Mounting bracket A x 2 pcs
- ⑦ Mounting bracket B x 12 pcs
- 8 M4*6mm screw x 4 pcs
- (9) M4*50mm screw x 12 pcs

Remarks

■ ID-H15A Series mounting bracket set includes item 6 - 9, please refer to p.6-7

2.2 ID-H15A series Structure Diagram

Chapter 2



Front View

Rear View



- 1 Rear case
- 2 Class A TFT LCD panel
- ③ 4mm protective glass

- ④ 6mm aluminum front bezel
- 5 LCD membrane

2.3 ID-H15A series Dimension Diagram

Chapter 2

UNIT : mm 1mm = 0.03937 inch

Front View







Rear View



2.4 ID-H15A series Mounting Method

Mounting bracket A



2.4 ID-H15A series Mounting Method

Chapter 2

75mm VESA standard



Remarks

- Hardware and M4*4 pcs for VESA mounting is not provided
- To avoid damage of internal components, when mounting the VESA bracket, do not use screws that exceed the depth (6mm) of the display mounting holes. Using screws that are too long may cause damage to your display

3.1 ID-H15AN series Package Contents



- (1) LCD display x 1 pc
- (2) 6' VGA cable (male to male) x 1 pc
- 3 User manual x 1 pc
- 4 Power cord x 1 pc
- (5) Auto switch power adapter x 1 pc
- 6 Mounting bracket A x 2 pcs
- ⑦ Mounting bracket B x 12 pcs
- 8 M4*6mm screw x 4 pcs
- **(9)** M4*50mm screw x 12 pcs

Remarks

■ ID-H15AN Series mounting bracket set includes item 6 - 9, please refer to p.11-12



Front View

Rear View



③ 4mm protective glass (Front NEMA 4 / IP65 protection)



Chapter 3

UNIT : mm 1mm = 0.03937 inch

Front View







Rear View



3.4 ID-H15AN series Mounting Method

Mounting bracket A



Mounting bracket B



3.4 ID-H15AN series Mounting Method

75mm VESA standard

UNIT : mm 1mm = 0.03937 inch



Remarks

- Hardware and M4*4 pcs for VESA mounting is not provided
- To avoid damage of internal components, when mounting the VESA bracket, do not use screws that exceed the depth (6mm) of the display mounting holes. Using screws that are too long may cause damage to your display

4.1 ID-H15D series Package Contents



- 1 LCD display x 1 pc
- (2) 6' VGA cable (male to male) x 1 pc
- ③ User manual x 1 pc
- (4) Power cord x 1 pc
- (5) Auto switch power adapter x 1 pc



Front View

Rear View



5 LCD membrane

3 4mm protective glass

2 Class A TFT LCD panel

4.3 ID-H15D series Dimension Diagram

Chapter 4

UNIT : mm 1mm = 0.03937 inch

Front View





Rear View



4.4 ID-H15D series Mounting method

Chapter 4

75mm VESA standard



Remarks

- Hardware and M4*4 pcs for VESA mounting is not provided
- To avoid damage of internal components, when mounting the VESA bracket, do not use screws that exceed the depth (6mm) of the display mounting holes. Using screws that are too long may cause damage to your display

5.1 ID-H15P series Package Contents



- 1 LCD display x 1 pc
- (2) 6' VGA cable (male to male) x 1 pc
- ③ User manual x 1 pc
- (4) Power cord x 1 pc
- (5) Auto switch power adapter x 1 pc

5.2 ID-H15P series Structure Diagram

Chapter 5



Front View

Rear View



- 1 Rear case
- 2 Class A TFT LCD panel

- ③ Universal open frame mounting
- (4) LCD membrane

5.3 ID-H15P series Dimension Diagram

Chapter 5

UNIT : mm 1mm = 0.03937 inch

Front View



Rear View





UNIT : mm 1mm = 0.03937 inch

Universal open frame mounting



Remarks

■ Hardware for fixing the LCD display is not provided

75mm VESA standard



Remarks

- Hardware and M4*4 pcs for VESA mounting is not provided
- To avoid damage of internal components, when mounting the VESA bracket, do not use screws that exceed the depth (6mm) of the display mounting holes. Using screws that are too long may cause damage to your display

6.1 Connection

Chapter 6



Caution : The LCD Display are hot-pluggable, but components of connected devices may not be hot-pluggable. Plugging and unplugging cables while connected devices are powered on may cause irreversible damage of the devices and LCD Display. Before attempting to connect anything to the LCD Display, we suggest that turn off power to all devices before connecting them. Apply power to connected devices again only after the LCD Display receiving power.The company is not responsible for damage caused in this way.

7.1 On-screen Display Operation

Chapter 7



| Membrane Switch | Function |
|-----------------|--|
| 0 • • | Power light Green = On Orange = Power saving |
| Θ | Power on / off LCD |
| M | Display the OSD menu |
| | Scrolls through menu options and adjusts the displayed control |
| | Exit the OSD screen Shortcut key to auto adjustment by pressed the button for 5 seconds Of Toggle analog, digital & video connection (DVI-D and video options only) |

| | MAIN MENU |
|---------------|---------------------|
| <u>`∳</u> : ● | BRIGHTNESS/CONTRAST |
| | AUTO ADJUST |
| | PHASE/CLOCK |
| | H/V POSITION |
| | MISC |
| | RESET |
| | |

BRIGHTNESS / CONTRAST

| Brightness: | Adjust background black level of the screen image. |
|-------------|--|
| Contrast: | Adjust the difference between the image background (black level) |
| | and the foreground (white level). |

AUTO ADJUST

- Auto Adjust: Fine tunes the video signal to eliminate waviness and distortion. An "Adjusting" message is displayed during the process.
- Auto Tune: Optimize phase, clock, position and size. An "Adjusting" message is displayed during the process.

PHASE/CLOCK

Phase / Clock: To enter into the phase & clock sub menu

H/V POSITION

H/V Position: Align the screen image left or right and up or down.

MISC

| Information: | Display the current resolution, refresh rate and frequency information on the screen. |
|---------------------|--|
| OSD Timer: | Set the time duration in seconds that the OSD is visible after the last button is pressed. The factory default is 10 seconds. |
| Color: Language: | Select the screen color - 5500K, 6500K & 9500K. The factory default is 9500K. Select the language in which the OSD menu is displayed - English, Chinese (中文), Japanese (日本語), German, French, Spanish, Italian |
| RESET | Restore the settings to factory defaults. |

8.1 LCD Specifications

| Item | Description |
|---------------------------------|--|
| Diagonal Size | 15" TFT |
| Max. Resolution | 1024 x 768 |
| Brightness (cd/m ²) | 1000 |
| Color Support | 16.2 Mil. |
| Contrast Ratio (typ.) | 700:1 |
| Viewing Angle (H/V) | 150° x 135° |
| Display Area (mm) | 304 x 228 |
| Tr Response Time (ms) | 2 |
| LCD Panel MTBF (hrs) | 50,000 |
| Display Input Signal | Analog RGB |
| Connection | DB-15 connector |
| Power Input | Auto-sensing 100 to 240VAC, 50 / 60Hz |
| Power Consumption | Max. 40 Watt, Standby 5 Watt |
| Compatibility | Multi-platform - Mix PCs, SUNs, IBMs, HPs & DELLs. |

Options

| Graphic Input | DVI-D, BNC, S-Video & RCA video input |
|---------------|---|
| DC Power | DC power input with 12V, 24V, 48V selection |
| Touchscreen | Resistive and capacitive |

Environmental

| Operation | 0° to 50°C Degree |
|-------------------|----------------------------------|
| Storage | -5° to 60°C Degree |
| Relative Humidity | 5~90%, non-condensing |
| Shock | 10G acceleration (11ms duration) |
| Vibration | 5~500Hz 1G RMS random vibration |

9.1 DVI-D Option

Chapter 9



Remarks

Package includes with a 6' DVI-D cable

9.2 S-Video + RCA Input Option



Remarks

■ Package includes an extra 6ft S-Video and 6ft RCA cables

9.3 S-Video + BNC Input Option



Remarks

Package includes an extra 6ft S-Video cable

9.4 On-screen Menu for DVI, BNC, S-Video & RCA Input Chapter 9

1. Image

| Brightness: | Adjust background black level of the screen image |
|-------------|---|
| Contrast: | Adjust the difference between the image background (black level) and the foreground (white level) |
| Sharpness: | Adjust the image from weak to sharp |
| Saturation: | Adjust the saturation of the image color |
| Hue: | Adjust the screen hue value |



2. Geometry

| Auto Config: | Adjust automatically sizes, centers, and fine tunes the video signal to eliminate waviness and distortion. An "Adjusting" message is displayed during the process. |
|--------------|--|
| H. Position: | Align the screen image left or right |
| V. Position: | Align the screen image up or down |
| Clock : | Adjust the clock value |
| Phase: | Adjust the phase value |



3. Function

| OSD Position: | Adjust OSD menu horizontal and vertical position |
|---------------|--|
| OSD Zoom: | Adjust the difference between the image background (black level) and the foreground (white level). |
| Color Temp: | Select the screen color - 5500K, 6500K & 9500K. The factory default is 6500K. |



4. System

| Language: | Select the language in which the OSD menu is displayed - | | |
|------------|--|--|--|
| | English, Chinese (中文), Japanese (日本語), German, | | |
| | French, Spanish, Italian. | | |
| Time: | Function is not supported | | |
| Power OFF: | Function is not supported | | |
| Reset: | Recall returns the adjustments back to factory settings. | | |





Note : The current resolution and refresh rate information show on the top right hand side of the screen when the LCD powered on.

9.4 On-screen Menu for DVI, BNC, S-Video & RCA Input Chapter 9

| Main manu | Sub menu | Display mode | | | |
|-----------|--------------|--------------|--------------|--------------|--------------|
| wan menu | | VGA | DVI | S-Video | RCA |
| | Brightness | \checkmark | \checkmark | \checkmark | \checkmark |
| Image | Contrast | \checkmark | \checkmark | \checkmark | \checkmark |
| | Sharpness | \checkmark | \checkmark | \checkmark | \checkmark |
| | Saturation | х | х | \checkmark | \checkmark |
| | Hue | х | х | \checkmark | \checkmark |
| | | | | | |
| | Auto Config | \checkmark | N/A | N/A | N/A |
| | H. Position | \checkmark | N/A | N/A | N/A |
| Geometry | V. Position | \checkmark | N/A | N/A | N/A |
| | Clock | \checkmark | N/A | N/A | N/A |
| | Phase | \checkmark | N/A | N/A | N/A |
| | | | | | |
| Function | OSD Position | \checkmark | \checkmark | \checkmark | \checkmark |
| | OSD Zoom | \checkmark | \checkmark | \checkmark | \checkmark |
| | Color Temp | \checkmark | \checkmark | \checkmark | \checkmark |
| | | | | | |
| | Language | √ | √ | √ | √ |
| System | Time | \checkmark | √ | | \checkmark |
| | Power OFF | √ | √ | | √ |
| | Reset | √ | √ | √ | √ |

| Sign | Represent | |
|--------------|------------------------------|--|
| \checkmark | Available and adjustable | |
| Х | Available but not adjustable | |
| N/A | Not available and adjustable | |

10.1 Touchscreen Options

USB interface



Serial interface



e-Resistive

| Model | -15TRB / -15TRS | |
|-----------------------|---|--|
| Screen size | 15" | |
| Interface | USB / serial | |
| Optical transmittance | 82%±5% | |
| Surface hardness | ≥3H (JIS K5400) | |
| Operating system | Windows 98 / 2000 / ME / XP / NT / CE, DOS, Linux | |

3M Capacitive

| Model | -15TCB_3M / -15TCS_3M | | |
|-----------------------|---|--|--|
| Screen size | 15" | | |
| Interface | USB / serial | | |
| Optical transmittance | 88% | | |
| Surface hardness | Mohs' hardness rating: 6 | | |
| Operating system | Windows 98 / 2000 / ME / XP / NT / CE, DOS, Linux | | |

Remarks

- USB touchscreen package includes an extra 6ft USB cable, quick reference guideline and CD disc
- Serial touchscreen package includes an extra 6ft serial cable, quick reference guideline and CD disc
- For detailed information, please refer to the attached CD disc
- As the touchscreen unit is not made of toughened glass, please handle it carefully.

10.1 Touchscreen Options

Chapter 10

Touchscreen Quick User Guidelines

e-Resistive touchscreen provides more accurate 25 points calibration for touch sensor.







Press [Clear] to clear the previous calibration records.

- Press [Yes] to clear previous records. The record will bcome default record.
- Press [25ptCal] to do 25 points calibration. Correct 25 point locations on screen with the panel.

- Touch the blinking symbol on panel until beep or stop blinking.
- After the calibration, the new record will overwrite the old one.



Caution :

- At the first assembly of touch screen, we suggest applying 25 points calibration.
- For a more accurate calibration of touch screen, please apply 25 points calibration.

11.1 DC Power Options $\circ \bigoplus_{\oplus \oplus}^{+-} \circ$

Chapter 11



| Model | 12V | 24V | 48V |
|-----------------|---------|----------|----------|
| Input rating | | | |
| Input voltage: | 12-Volt | 24-Volt | 48-Volt |
| Input range: | 9 ~ 18V | 18 ~ 36V | 36 ~ 75V |
| Input current | | | |
| - No load | 50 mA | 50 mA | 50 mA |
| - Full load | 4950 mA | 2450 mA | 1220 mA |
| Output rating | | | |
| Output voltage: | 12-Volt | 12-Volt | 12-Volt |
| Output current: | 4.16A | 4.16A | 4.16A |
| Efficiency | 84% | 85% | 85% |

Remarks

Package does not include power cord and AC power adapter



Remarks

Package includes a remote controller

12.2 How to Use Remote Controller

■ How to use remote controller, please refer to p.32-33







14.1 Remote Controller Options

Chapter 14

| 1 | POWER | Switches on or off the TV | |
|----|---------------|---|--|
| 2 | 1 - 9 | Only use in TV mode. Select channels. For channel numbers 10 and above, enter the second digit within two seconds. | |
| 3 | DISPLAY | Press this button will show the current input source | |
| 4 | SELECT | Select the input source | |
| 5 | ENTER | Enter to the select item settings or excude the setting | |
| 6 | MENU | Display the menu on the screen or go to the previous menu | |
| 7 | ▲ / ▼ / ◀ / ► | Go to the upper menu or select the previous value / Go to the next menu or select the next value / Decrease the setting value / Increase the setting value or enter to the select item setting | |
| 8 | CH + / - | Increase or decrease the channel number | |
| 9 | FREEZE | Freeze the main channel display picture | |
| 10 | AUDIO | Select sound effect: NORMAL, POPULARITY, ROCK, JAZZ, CLAS- SICALLY, USER | |
| 1 | ADJUST | Only used in VGA mode. Adjust the screen position | |
| 12 | ASPECT | Set the main display aspect ratio mode: FULL SCREEN, PILLAR BOX | |
| 13 | SOURCE | Only used in PIP mode. Select PIP input source | |
| 14 | PIP | Turn on or off the PIP Channel | |
| 15 | SLEEP | Select the sleeping time | |
| 16 | MUTE | Turn on or off the speaker | |
| 17 | INPUT | _ Select the Main Channel input source | |
| 18 | CLEAR | Press this button will hide the current input source name on the Top- Left position | |
| 19 | BACK | Return to the previous channel watched | |
| 0 | EXIT | Exit the menu or cancel | |
| ୧୭ | VOL + / - | Increase or decrease the speaker volume | |
| 2 | ZOOM + / - | Zoom in or out the screen | |
| 23 | -`Q́- +/- | Increase or decrease the brightness | |
| 2 | SWAP | Swap the input source with Main Channel and PIP Channel | |
| Ø | POSITION | Set the position of the PIP screen: BOTTOM-LEFT, BOTTOM-RIGHT, TOP-LEFT, TOP-RIGHT | |
| 26 | PIP AUDIO | Alternate the main screen speaker or PIP screen speaker | |
| Ø | PIP ASPECT | Set the PIP display aspect ratio mode: FULL SCREEN, PILLAR BOX | |

15.1 Troubleshooting

1. How do I adjust the resolution?

To change monitor resolution, click Start -> Control Panel -> Display. Select Setting tab to adjust the monitor resolution in Desktop Area. The available resolutions, "640 x 480", "800 x 600", "1024 x 768", "1152 x 864", "1280 x 1024", are determined by the display card in your computer.

2. Is interference signal appeared on LCD normal when shutting down the computer ?

In rare cases, interference may appear on the monitor. This may be caused by signal rate of VGA card and is considered normal. The image quality can be improved by adjusting the phase or pixel rate automatically or manually.

3. The membrane power light is not ON

Press the power On / Off on LCD membrane to check if the monitor is in the ON mode. Check the power cord is properly connected to the LCD keyboard drawer and power outlet.

4. Screen image is not centered or sized properly

Press the \bigcap button for two seconds to automatically adjust the image. Adjust the H-position and V-position settings via On-screen menu.

5. Must calibration be down after installation completed?

After connecting your touch monitor and installing the software, you must calibrate the touchscreen. Calibration serves two purposes:

(A) Set the active area of the touchscreen.

(B) Align the touchscreen's active area to the underlying video.

6. The touchscreen is not accurate

Calibration should be required.

Make sure to touch the centre of each X once at a time.

7. The touchscreen is accurate in most areas, but off a lot in certain area

The touchscreen may have linearity problems. Please use touch screen and select more points calibration.

8. Why can the display not match to the touchscreen correctly after calibration?

The touchscreen will be aged after a certain period of consumption or under harsh environment. It is normal. The touchscreen driver has an utility to adjust the situation. The calibration point can be more on the touch screen.

| Model | Product Dimension (W x D x H) | Net Weight |
|-----------------|---|------------------|
| ID-H15A series | 390 x 55 x 300 mm 15.4 x 2.2 x 11.8" | 3.5 kg 7.7 lb |
| ID-H15AN series | 390 x 55 x 300 mm 15.4 x 2.2 x 11.8" | 3.5 kg 7.7 lb |
| ID-H15D series | 372 x 52 x 283 mm 14.6 x 2 x 11.1" | 3.5 kg 7.7 lb |
| ID-H15P series | 399 x 50 x 310 mm 15.7 x 2 x 12.2" | 3.5 kg 7.7 lb |

17.1 Cleaning the LCD display

Chapter 17

You may need the following precautions before you begin to clean the LCD display, please read and understand the details below fully.

- 1. Make sure the monitor is turned off
- 2. Never spray or pour any liquid onto the screen directly
- 3. To remove dust and other particles, wipe the screen with a clean, soft, lint-free cloth.
- 4. Be cautions of all kinds of cleaning solvents or chemicals, some individuals may be harmful to the LCD display.
- 5. If the LCD display is still not clean enough, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen.
- 6. Don't use water or oil on the monitor directly.

The company reserves the right to modify product specifications without prior notice and assumes no responsibility for any error which may appear in this publication.

All brand names, logo and registered trademarks are properties of their respective owners.

Copyright 2008 Synergy Global Technology Inc. All rights reserved.